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NGUYEN, TRONG H				
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2436				
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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Office Action Summary**Application No.**

10/559,889

Applicant(s)

ZHANG ET AL.

Examiner

TRONG NGUYEN

Art Unit

2436

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 14 July 2011.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on ____; the restriction requirement and election have been incorporated into this action.
- 4) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 5) ☒ Claim(s) 1 and 3-14 is/are pending in the application.
- 5a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 6) ☐ Claim(s) ____ is/are allowed.
- 7) ☒ Claim(s) 1 and 3-14 is/are rejected.
- 8) ☐ Claim(s) ____ is/are objected to.
- 9) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 10) ☐ The specification is objected to by the Examiner.
- 11) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 12) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. ____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SD-603)
Paper No(s)/Mail Date 08/25/2011
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date ____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: ____

DETAILED ACTION

1. This action is in response to the communication filed on 07/14/2011. In response to the office action mailed on 02/14/2011, claims 1 and 4 have been amended. Pending claims include **claims 1 and 3-14**.

The objection to claims 1 and 4 has been withdrawn due to Applicants' amendments.

Examiner Notes

2. Examiner cites particular pages or columns or paragraphs and/or line numbers in the references as applied to the claims below for the convenience of Applicant(s). Although the specified citations are representative of the teachings in the art and are applied to the specific limitations within the individual claim, other passages and figures may apply as well. It is respectfully requested that, in preparing responses, Applicant(s) fully consider(s) the references in entirety as potentially teaching all or part of the claimed invention, as well as the context of the passage as taught by the prior art or disclosed by Examiner.

Response to Arguments

3. Applicants' arguments filed on 07/14/2011 have been fully considered but they are not persuasive.

Applicants argue that:

i. the interpretation of at least two resetting steps and the communicating step is inconsistent with Jordan's teaching. Specifically, the Office Action interprets Jordan as teaching: resetting the current key to equal the new key (K3 being set to the current key), resetting the old key to equal an encryption key used by a station in communication with a point in the network (K2 being set to the old key), and the new key (K3) being communicated by encryption with the old key (i.e., K2). However, such key assignments are inconsistent with Jordan's teaching that the "old password key" (K2) used to encrypt the message containing the new key (K3) is also the same as the "current password key" (e.g., para. 0080); whereas, according to the Office Action, the current key has been reset as K3 (i.e., not the old key K2). Thus, the specific correspondence of the various keys in the Office Action for these resetting and communicating steps does not agree with Jordan's teaching (page 2 of Remarks).

ii. Although Jordan's Fig. 1 is said to be an exemplary wireless system, it is also clear that Jordan does not contemplate or suggest the specific configurations in Applicants' claimed invention - that of providing an access point in the network and performing the recited steps at the access point. The cited portions of Chen disclose updating ciphering key between an access point and a station, including generating a new key and sending the new key by encrypting it using the old key (see Fig. 2, para. 12 and 43). However, there is no showing that Chen teaches that any of the other steps in Jordan be performed at the access point. The Office Action's assertion, that one skilled in the art would modify Jordan's method to perform each step in the exact

manner of Applicants' invention, appears to be a conclusory statement based on hindsight from Applicants' disclosure (pages 2-3 of Remarks).

In response to Applicants' arguments:

i. Examiner respectfully disagrees for the following reasons. The reason why Jordan states that "the old password key, which is **also called** the current password key" (note that Jordan did not state that the old key has the same value as the current key at the messaging gateway) in par. 0080 is that from **the messaging gateway's point of view, the old key is reset to K2 and the current key is reset to new key K3** since the messaging gateway initiated the key update but **from the wireless device's point of view, the old key is still K1 and the current key is still K2** since the wireless device did not initiate the key update and did not know if a key update has occurred until it successfully received new key K3. As a result, although the old key at the messaging gateway is **also called** the current key, the old key at the messaging gateway is K2 and not K3. Furthermore, it should be noted that in order for the wireless device to successfully receive the current key K3 from the messaging gateway, the current key K3 must not be encrypted using the current key K3 (since the wireless device does not have K3) but instead must be encrypted using the old key K2 at the messaging gateway (which is the current key at the wireless device). Thus, the interpretation of at least two resetting steps and the communicating step is consistent with Jordan's teaching.

ii. Examiner respectfully disagrees for the following reasons. In response to Applicants' argument that the examiner's conclusion of obviousness is based upon

improper hindsight reasoning, it must be recognized that any judgment on obviousness is in a sense necessarily a reconstruction based upon hindsight reasoning. But so long as it takes into account only knowledge which was within the level of ordinary skill at the time the claimed invention was made, and does not include knowledge gleaned only from the applicant's disclosure, such a reconstruction is proper. See *In re McLaughlin*, 443 F.2d 1392, 170 USPQ 209 (CCPA 1971).

In this case, although Jordan does not disclose performing the recited steps at an access point in the network, Jordan does disclose performing the recited steps at a messaging gateway in the network in communication with at least one station. Furthermore, based on pars. 0033-0034, one of ordinary skill in the art would readily recognize that Jordan's synchronization methods can be implemented in other wireless communication systems where there is a need to maintain secure wireless transmissions including a wireless communication system comprising access points and stations.

Moreover, Chen discloses a method for updating and synchronizing ciphering key between at least one access point in direct communication with at least one station in a wireless network to prevent network hackers from invading into the wireless network where a newly generated encryption key is transmitted directly from the at least one access point to the at least one station in encrypted form using an old encryption key (e.g. Fig. 2 and pars. 0005, 0012, 0043).

Thus, it would have been obvious to a person of ordinary skill in the art at the time of the invention to modify the invention of Jordan by implementing the above

synchronization method in a wireless communication system comprising at least one access point in direct communication with at least one station and communicating the newly generated encryption key directly from the at least one access point to the at least one station as described by Chen for the purpose of preventing hackers from invading into the wireless network (Chen, pars. 0005, 0012).

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. **Claims 1, 7-8, and 13** are rejected under 35 U.S.C. 103(a) as being unpatentable over Jordan et al. US 2004/0081320 A1 (hereinafter "Jordan") in view of Chen et al. US 2003/0221098 A1 (hereinafter "Chen").

Regarding claim 1, Jordan discloses **a key synchronization method for a wireless network** [e.g. Figs. 1, 8-11] **comprising:**

setting a current encryption key and an old encryption key at a point in the wireless network; [e.g. pars. 0080-0081, 0083, 0084, 0089-0091, 0093: Jordan's key synchronization method starts out with an initial or base password key (let's call it K1) being a current password key (i.e. current password key is set to K1) at a messaging

gateway and a wireless device. Later, when a new password key is generated (let's call it K2) at the messaging gateway, K1 becomes a prior or old password key (i.e. old password key is set to K1) and K2 replaces K1 to become the current password key (i.e. the current password key is set to K2). Both the messaging gateway and the wireless device use this same key K2 to securely communicate with one another]

generating a new encryption key at the point; [e.g. pars. 0078-0079, 0083: At some later point in time, another new password key is generated (let's called it K3) at the messaging gateway]

resetting at the point the current encryption key to equal the newly generated encryption key; [e.g. pars. 0081, 0083: K3 replaces K2 to become the current password key (i.e. the current password key is set to K3) at the messaging gateway]

resetting at the point the old encryption key to equal an encryption key being used by a station in communication with the point; [e.g. pars. 0080 and 0083: K2, a password key currently being used by a wireless device in communication with the messaging gateway, becomes the old password key (i.e. the old password key is set to K2)]

communicating the newly generated encryption key from the point directly to the station in an encrypted form using the old encryption key; [e.g. pars. 0078, 0080, 0082-0083: K3 is transmitted from the messaging gateway to the wireless device in an encrypted form using the old password key]

indicating at the point a decryption failure for a data frame received from the station when the encryption key used by the station does not match the current encryption key, [e.g. pars. 0087-0088, 0090: messaging gateway initiating a function that communicates to the wireless communication system that the updated password key is not correct or sending an error message to the wireless device or pars. 0091-0093: indicating a decryption failure by reverting back to a password key that is prior to the most recent updated password key] **wherein a data frame that failed to decrypt using the current encryption key is decrypted by the point using the old encryption key**; [e.g. pars. 0091-0093: messaging gateway reverting back to a password key that is prior to the most recent updated password key (i.e. the old password key)]

resetting at the point the old encryption key to equal the current encryption key when decryption using the new encryption key is successful [e.g. pars. 0088, 0091, 0078, 0083: when the messaging gateway and the wireless device are re-synchronized (i.e. both contain most recent updated password key or K3), another new password key (let's called it K4) can be generated which results in K3 becoming the old password key (i.e. the old password key is set to K3)]

Although Jordan discloses that the above steps: setting, generating, resetting, resetting, communicating, indicating, decrypting, and resetting are performed at a point in the network (i.e. messaging gateway), Jordan does not specifically disclose that the above steps: setting, generating, resetting, resetting, communicating, indicating, decrypting, and resetting are performed at **an access point** and that the newly

generated encryption key is communicated **directly** from the **access point** to the station.

However, Jordan discloses that the above wireless communication system shown in Fig. 1 is an exemplary embodiment of a wireless communication system in which Jordan's synchronization methods may be implemented (pars. 0033-0034). Thus, one of ordinary skill in the art would readily recognize that Jordan's synchronization methods can be implemented in other wireless communication systems where there is a need to maintain secure wireless transmissions including a wireless communication system comprising access points and stations.

Furthermore, Chen discloses a method for updating and synchronizing ciphering key between at least one access point in direct communication with at least one station in a wireless network to prevent network hackers from invading into the wireless network where a newly generated encryption key is transmitted directly from the at least one access point to the at least one station in encrypted form using an old encryption key (e.g. Fig. 2 and pars. 0005, 0012, 0043).

Thus, it would have been obvious to a person of ordinary skill in the art at the time of the invention to modify the invention of Jordan by implementing the above synchronization method in a wireless communication system comprising at least one access point in direct communication with at least one station and communicating the newly generated encryption key directly from the at least one access point to the at least one station as described by Chen for the purpose of preventing hackers from invading into the wireless network (Chen, pars. 0005, 0012).

Regarding claim 7, Jordan-Chen combination further discloses **the method according to claim 1, wherein said setting is performed by the access point for each station in the wireless network** [see rejection of claim 1 and Chen's Fig. 2 and par. 0017]

Regarding claim 8, this claim is rejected for similar reasons as in claim 1.

Regarding claim 13, Jordan-Chen combination further discloses **the method according to claim 1, wherein the new encryption key is generated at the access point upon expiration of a key refresh interval** [e.g. Chen, par. 0054: As long as the random-code generation program 38 is detonated to generate a new ciphering key each time the counting module 36 conforms to a predetermined time, it is covered by the disclosure of the present invention. In addition, the predetermined time can be a fixed time or a non-fixed time. That means the wireless network system 30 can update the common ciphering key according to a fixed time or a random time. No matter if the common ciphering key is updated according to a fixed time or a random time, the ciphering key also can be automatically updated]

6. **Claims 3, 4, 9 and 14** are rejected under 35 U.S.C. 103(a) as being unpatentable over Jordan in view of Chen and further in view of Loc et al. US 7,293,289 (hereinafter "Loc").

Regarding claim 3, Jordan-Chen combination further discloses **the method according to claim 1, further comprising: decrypting received data frames at the access point using the old encryption key** as [see rejection to claim 1 above] but does not specifically disclose the received data frames are **associated with said out-of-sync counter** and **incrementing an out-of-sync counter in the access point when said decryption failure occurs due to the encryption key used by the station not matching the current encryption key**.

However, Loc discloses a method for detecting a security breach in a network wherein "Each time a client 108 fails to successfully decrypt a packet, the encryption failure counter is incremented" (Fig. 5, Col. 6, lines 59-61). Furthermore, Jordan discloses that when there is a transmit or receive error, the messaging gateway reverts back to a password key that is prior to the most recent updated password key (i.e. the old encryption key) to decrypt a message received from the wireless device after unsuccessfully decrypting the message using the updated password key (i.e. the current password key) (Figs. 10-11).

Loc, Chen, and Jordan are analogous art because they are in the same field of secure data communication in a wireless network.

It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify the invention of Jordan-Chen by incrementing an out-of-sync counter in the access point when said decryption failure occurs due to the encryption key used by the station not matching the current encryption key and decrypting received

data frames associated with said out-of-sync counter as described by Loc in order to detect a security breach in a network (Loc, Col. 1, lines 22-23) and resynchronizing password keys (Jordan, Par. 0087).

Regarding claim 4, Jordan-Chen combination further discloses the method according to claim 1, further comprising:

decrypting, using the new encryption key, the received data frame from the station when the access point determines the station sending the received data frame is using the new encryption key, the access point starting to use the new encryption key when a first data frame correctly encrypted with the new encryption key is received from the station; [e.g. Jordan, Figs. 10-11, Pars. 0088-0089 and 0091-0092 and Chen, par. 0051] but does not specifically disclose re-setting an out-of-sync counter to zero upon successful decryption.

However, Loc discloses a method for detecting a security breach in a network wherein "Each time client 108 successfully decrypts a packet, the encryption failure counter is reset to zero" (Loc, Col. 6, lines 57-69).

Loc, Chen, and Jordan are analogous art because they are in the same field of secure data communication in a wireless network.

It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify the invention of Jordan-Chen by re-setting an out-of-sync counter to zero upon successful decryption as described by Loc in order to detect a security breach in a network (Loc, Col. 1, lines 22-23).

Regarding claim 9, this claim is rejected for similar reasons as in claim 3.

Regarding claim 14, Jordan-Chen-Loc combination further discloses **the method according to claim 3, wherein said out-of-sync counter comprises a predetermined threshold that if exceeded causes communication to terminate between the access point and a source of the data frames causing the threshold of said out-of-sync counter to be exceeded** [Loc, Col. 6, lines 61-65: When the encryption failure counter reaches a predetermined threshold n (that is, when n consecutive failures have occurred) (step 512), client 108 sends an alert packet to access point. Loc, Col. 6, lines 5-9: furthermore, upon receiving the alert of a security breach, the access point "responds by immediately removing the MAC address of client 108 from its list of authorized clients, by ceasing to send any packets to the MAC address of client 108, and by discarding all packets that are received from the MAC address of client 108]

7. **Claims 5-6 and 10-12** are rejected under 35 U.S.C. 103(a) as being unpatentable over Jordan in view of Chen and further in view of Kelem et al. US 6,118,869 (hereinafter "Kelem").

Regarding claim 5, Jordan-Chen combination discloses **the method according to claim 1** but does not specifically disclose **further comprising setting the old**

encryption key equal to a null value, said null value representing a no encryption mode.

However, Kelem discloses if decryption is not desired, a decryption key value of 0 is chosen (Col. 4, lines 18-20). By disclosing setting a decryption key to a null value or 0 when no decryption is desired, Kelem also makes it obvious to set an encryption key to a null value when no encryption is desired.

Kelem, Chen, and Jordan are analogous art because they are in the same field of endeavor of encryption and/or decryption key protection.

It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify the invention of Jordan-Chen by setting the old key equal to a null value, said null value representing a no encryption mode as described by Kelem in order to modify the key thereby providing a high level of security (Kelem, Col. 2, lines 10-14).

Regarding claim 6, Jordan-Chen combination discloses the method according to claim 1 but does not specifically disclose further comprising setting the current encryption key and the old encryption key to a null value, said null value representing a no encryption mode.

However, Kelem discloses if decryption is not desired, a decryption key value of 0 is chosen (Col. 4, lines 18-20). By disclosing setting a decryption key to a null value or 0 when no decryption is desired, Kelem also makes it obvious to set an encryption key to a null value when no encryption is desired.

Kelem, Chen, and Jordan are analogous art because they are in the same field of endeavor of encryption and/or decryption key protection.

It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify the invention of Jordan-Chen by setting the current encryption key and the old encryption key to a null value, said null value representing a no encryption mode as taught by Kelem in order to modify the keys to provide a high level of security (Kelem, Col. 2, lines 10-14).

Regarding claim 10, Jordan-Chen combination discloses the key synchronization system according to claim 8 but does not specifically disclose wherein said at least one access point is configured for setting the old encryption key to a null value, said null value representing a no encryption mode.

However, Kelem discloses if decryption is not desired, a decryption key value of 0 is chosen (Col. 4, lines 18-20). By disclosing setting a decryption key to a null value or 0 when no decryption is desired, Kelem also makes it obvious to set an encryption key to a null value when no encryption is desired.

Kelem, Chen, and Jordan are analogous art because they are in the same field of endeavor of encryption and/or decryption key protection.

It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify the invention of Jordan-Chen by setting the old encryption key at the access point to a null value which represents a no encryption mode as taught by

Kelem in order to modify the key thereby providing a high level of security (Kelem, Col. 2, lines 10-14).

Regarding claim 11, Jordan-Chen combination discloses the key synchronization system according to claim 8 but does not specifically disclose wherein said at least one access point is configured for setting the new encryption key to a null value, said null value representing a no encryption mode.

However, Kelem discloses if decryption is not desired, a decryption key value of 0 is chosen (Col. 4, lines 18-20). By disclosing setting a decryption key to a null value or 0 when no decryption is desired, Kelem also makes it obvious to set an encryption key to a null value when no encryption is desired.

Kelem, Chen, and Jordan are analogous art because they are in the same field of endeavor of encryption and/or decryption key protection.

It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify the invention of Jordan-Chen by setting the new encryption key at the access point to a null value which represents a no encryption mode as taught by Kelem in order to modify the key thereby providing a high level of security (Kelem, Col. 2, lines 10-14).

Regarding claim 12, Jordan-Chen combination discloses the key synchronization system according to claim 8 but does not specifically disclose

wherein said at least one access point initially sets the old encryption key to a null value.

However, Kelem discloses if decryption is not desired, a decryption key value of 0 is chosen (Col. 4, lines 18-20). By disclosing setting a decryption key to a null value or 0 when no decryption is desired, Kelem also makes it obvious to set an encryption key to a null value when no encryption is desired.

Kelem, Chen and Jordan are analogous art because they are in the same field of endeavor of encryption and/or decryption key protection.

It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify the invention of Jordan-Chen by setting the old encryption key at the access point initially to a null value which represents a no encryption mode as taught by Kelem in order to modify the key thereby providing a high level of security (Kelem, Col. 2, lines 10-14).

Conclusion

THIS ACTION IS MADE FINAL. See MPEP 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TRONG NGUYEN whose telephone number is

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(571)270-7312. The examiner can normally be reached on Monday through Thursday 9:30 AM - 5:00 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, NASSER MOAZZAMI can be reached on (571)272-4195. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/David García Cervetti/
Primary Examiner, Art Unit 2436

/T N/
Examiner, Art Unit 2436